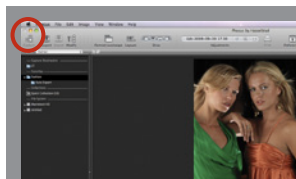




Phocus by Hasselblad User Manual

Tethered Capture

Allows the control of Hasselblad digital camera products when connected by FireWire to a computer.



Tethered capture

Shortcut

Capture

⌘ + N

Ctrl + N



Connection

Connect the digital camera system to a computer via a FireWire cable. An icon will appear under **Devices 1** in the **File Browser** and a heading in the **Camera** tool **2** affirms that connection has been made. Regarding storage space, you can check the amount left by selecting the **Capture Destination** folder in the Finder and reading the figure displayed to the right in the **Thumbnails Browser** bar.

Capture

See under **Tools** for description of **Camera** tool. According to model/configuration, the camera can be triggered either by:

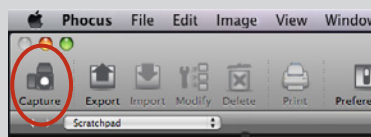
- the **Capture** icon in the **Toolbar 3** (H models, motorized V models and V models with winder only).
- the shortcut – ⌘ + n / Ctrl + n
- the camera itself.

After exposure, the capture is stored directly in the folder that you have designated to be the **Capture Destination** folder (default: **Phocus Captures** – see **File Browser** section about how to create a new capture destination folder). The name of this selected folder appears at the top of the **File Browser** as a reminder.

Immediately after exposure, the capture preview appears in the **Viewer** and in the **Thumbnail Browser**. An icon appears **4** on the left hand side of the bar just above the **Viewer** to indicate progress. It disappears when the capture has been stored.

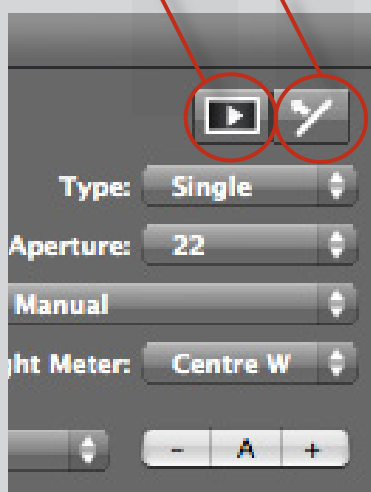
Points to note

- Captures are stored directly in the chosen capture destination folder. You should therefore always check beforehand that you have selected the correct folder (see Capture Destination section for more information).
- All tethered captures are stored as lossless compressed 3F files in the capture destination folder.
- Using the Camera tool you can accurately control the camera setup. There are a variety of controls available under this tool, depending on the camera model. These include, apart from shutter-speed, aperture, etc., even special focusing options allowing for remote focus increments using the “-” or “+” buttons and modifier keys to control focus and depth of field.
- The available set of active controls in the Camera tool will differ according to the digital camera model. H-system cameras allow more control than V-system cameras due to their greater integration and overall more advanced data-controlled capabilities.
- The Mirror Up button on the Camera tool only functions with H system cameras.



Live Video button

Mirror Up button



Tip

In Preferences you can select a favored layout that is activated automatically when a camera is connected.

Live Video

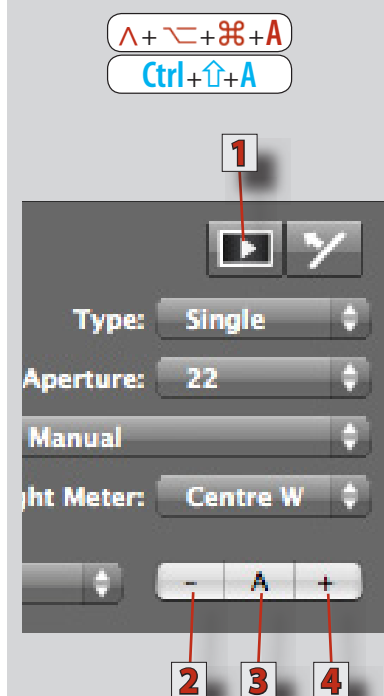
Both H and V-system cameras can utilize the **Live Video** function, although the H-system offers a greater opportunity for automation. This function is intended for tethered operation in studio set-up environments for product and similar non-moving subjects where careful compositional placing in conjunction with layout sketches, etc is required. It provides a continual image (refreshed about once every second) that appears in the **Viewer**, which can be zoomed in and checked for focus. An audio and a visual aid are also available to help you make very accurate focus settings.

Procedure

As this function requires that the shutter remains fully open, it allows a great deal of light onto the sensor. The only exposure controls left are therefore the aperture setting and the amount of ambient light. This results in a need for quite low level lighting and small apertures (normally a combination of both). This might demand some experimentation regarding the power of your lighting set up and the aperture setting you had planned on using. When using H-system cameras, you can use the Auto aperture setting, though this might not, of course, correspond with your desired working aperture setting.

H and V-systems

1. With Phocus running, tether the camera.
2. Open the Camera tool (default: under the Capture tab) and make the desired setting adjustments
 - H ONLY - Set the camera to Manual focus. Aperture and shutter speed settings are temporarily overridden in Live Video mode.
 - V / CFV ONLY - The lens must remain open for the duration of the session. Use the appropriate method according to the equipment used. Make a temporary aperture setting.
3. The function is activated either by:
 - pressing the Live Video button in the Camera tool
 - Choosing Menu > View > Live Video
 - ⌘+I / Ctrl+I
4. The Viewer now displays a black and white image.
5. Grid lines and /or overlay can be introduced to check for compositional positioning etc.
6. A focus check can also be made (see below).



Focus checking

By using the **Zoom** tool in the **Viewer Toolbar**, you can obtain a close up of the section of the image you want to check for focus. The **Viewer** image changes format and displays a view beneath. This is the focus view, which plots the accuracy of the focus setting while displaying it in the form of a continually updated graph.

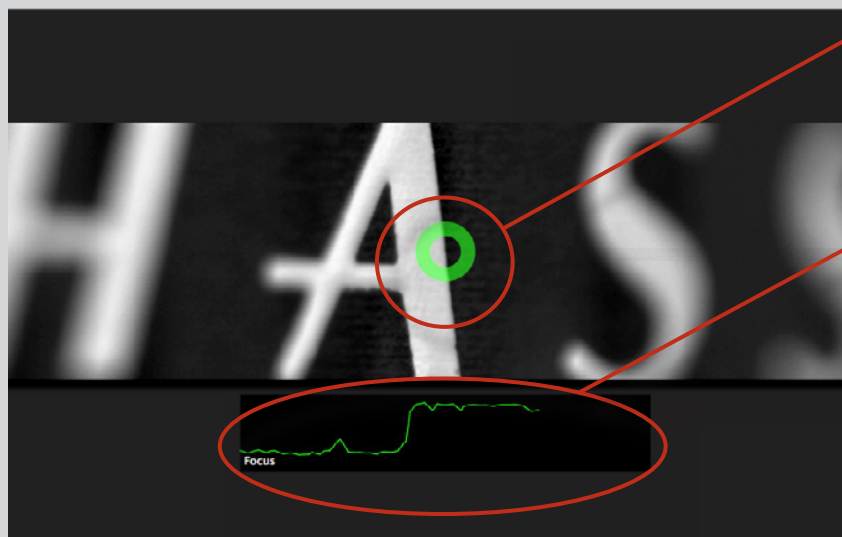
With tethered H-system cameras, make an initial auto focus, either directly on the camera or by pressing **A 3** on the **Camera** tool. Press the **Live Video** button **1** to activate.

- Click on the '-' **2** or '+' **4** buttons on the tool (not + or - on the keyboard) to alter the focus.
- Hold down **⌘** / **Ctrl** and click on the '-' or '+' buttons for finer focus adjustments.
- Hold down **Alt** / **Alt** and click on the '-' or '+' buttons for larger focus adjustments.

Press **⌘ (Ctrl) + ⌘ + ⌘ + a** / **Ctrl + ⌘ + a** to activate the **Audio Feedback** function that signals when the focus setting is at its optimum.

With V system /CFV combinations, focus must be altered manually on the lens. The goal is to obtain the highest reading on the graph for that particular area you have selected.

Focus checking in Live Video mode



Select the **Zoom** tool and click on the area you want to check to produce a close-up.

Changing the focus setting produces an automatically updating graph. The higher the reading, the more accurate the setting measured from the selected area. An audio signal is also available.

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